

ABSTRACT OF THE DISCLOSURE

To address the requirements described above, the present invention discloses a method, apparatus, article of manufacture, and a locking structure for supporting parity protected RAID in a clustered environment. When updating parity, the parity is locked so that other nodes cannot access or modify the parity. Accordingly, the parity is locked, read, generated, written, and unlocked by a node. An enhanced protocol may combine the lock and read functions and the write and unlock functions. Further, the SCSI RESERVE and RELEASE commands may be utilized to lock/unlock the parity data. By locking the parity in this manner, overhead is minimized and does not increase as the number of nodes increases.

"Express Mail" mailing label number EL54075055345
Date of Deposit JANUARY 5, 2001
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